

Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
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EFS ID: 55662  
Application ID: 10673971  
Title of Invention: Directional Signal and Noise  
Sensors for Borehole  
Electromagnetic Telemetry  
System  
First Named Inventor: Paul Rodney  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2003-09-29  
Effective Receipt Date: 2004-02-17  
Submission Type: Information Disclosure  
Statement  
Filing Type:  
Confirmation number: 3957  
Attorney Docket Number: 1391-25206




Total Fees Authorized:

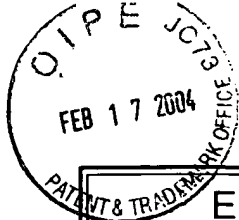
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Certificate Message Digest: 11388aceaa27580db0f64e30d9ea65c9c6de6cd5

**TRANSMITTAL**

Electronic Version v1.1

Stylesheet Version v1.1.0

<b>Title of Invention</b>	<b>Directional Signal and Noise Sensors for Borehole Electromagnetic Telemetry System</b>									
<b>Application Number:</b> 10/673971 										
<b>Date:</b> 2003-09-29										
<b>First Named Applicant:</b> Paul F. Rodney										
<b>Confirmation Number:</b> 3957										
<b>Attorney Docket Number:</b> 1391-25206										
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<table border="1"><thead><tr><th><b>Submitted by:</b></th><th><b>Elec. Sign.</b></th><th><b>Sign. Capacity</b></th></tr></thead><tbody><tr><td>Albert C. Metrailer Registered Number: 27,145</td><td>Albert C. Metrailer</td><td>Attorney</td></tr></tbody></table>			<b>Submitted by:</b>	<b>Elec. Sign.</b>	<b>Sign. Capacity</b>	Albert C. Metrailer Registered Number: 27,145	Albert C. Metrailer	Attorney		
<b>Submitted by:</b>	<b>Elec. Sign.</b>	<b>Sign. Capacity</b>								
Albert C. Metrailer Registered Number: 27,145	Albert C. Metrailer	Attorney								
<table><tr><td><b>Documents being submitted</b></td><td><b>Files</b></td></tr><tr><td>us-ids</td><td>1391-25206-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>			<b>Documents being submitted</b>	<b>Files</b>	us-ids	1391-25206-usidst.xml		us-ids.dtd		us-ids.xsl
<b>Documents being submitted</b>	<b>Files</b>									
us-ids	1391-25206-usidst.xml									
	us-ids.dtd									
	us-ids.xsl									
<b>Comments</b>										



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Directional Signal and Noise Sensors for Borehole Electromagnetic Telemetry System
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Application Number: 10/673971



Confirmation Number: 3957

First Named Applicant: Paul Rodney

Attorney Docket Number: 1391-25206

Art Unit: 2831

Search string: ( 4199989 or 4215425 or 4878206 or 4980682  
or 4992787 or 5289354 or 5467083 or 5565860  
or 5627896 or 6023658 or 6188223 or  
6285190 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	4199989	1980-04-29	Forward et al.		73	430
	2	4215425	1980-07-29	Waggener		367	83
	3	4878206	1989-10-31	Grosso et al.		367	83
	4	4980682	1990-12-25	Klein et al.		340	854
	5	4992787	1991-02-12	Helm		340	854
	6	5289354	1994-02-22	Clayer et al.		367	82
	7	5467083	1995-11-14	McDonald et al.		340	854.6
	8	5565860	1996-10-15	Sakata et al.		340	854.8
	9	5627896	1997-05-06	Southward et al.		381	71
	10	6023658	2000-02-08	Jeffryes		702	16
	11	6188223	2001-02-13	Van Steenwyk et al.		324	370
	12	6285190	2001-09-04	Brune et al.		324	326

Signature

Examiner Name	Date
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